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1 [Advanced XML technologies and applications: Consistently updating XML documents](#)

[using incremental constraint check queries](#)

Bintou Kane, Hong Su, Elke A. Rundensteiner

 November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Publisher: ACM Press

 Full text available: pdf(399.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When updating a valid XML document, an efficient yet light-weight mechanism is needed to determine if the up-date would invalidate the document. Towards this goal, we developed a framework called SAXE, we first analyzed the constraints expressed in XML schema specifications and establish constraint rules that must be observed for an XML document to conform to a given XML Schema. We then classify the rules as relevant for a given update case, that is, we show the minimal set of rules that must be ...

Keywords: XML schema, XML update, XQuery

2 [Document searching, document annotation, and document metadata: Prefiltering techniques for efficient XML document processing](#)

Chia-Hsin Huang, Tyng-Ruey Chuang, Hahn-Ming Lee

 November 2005 **Proceedings of the 2005 ACM symposium on Document engineering DocEng '05**

Publisher: ACM Press

 Full text available: pdf(442.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document Object Model (DOM) and Simple API for XML (SAX) are the two major programming models for XML document processing. Each, however, has its own efficiency limitation. DOM assumes an in-core representation of XML documents which can be problematic for large documents. SAX needs to scan over the document in a linear manner in order to locate the interesting fragments. Previously, we have used tree-to-table mapping and indexing techniques to help answer structural queries to large, or large c ...

Keywords: DOM, SAX, prefiltering, structural query, two-phased XML processing model

3

[Paper session 4: XML query processing: Best-match querying from document-centric](#)

**XML**

Jaap Kamps, Maarten Marx, Maarten de Rijke, Börkur Sigurbjörnsson
 June 2004 **Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004 WebDB '04**

Publisher: ACM Press

Full text available: pdf(277.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

On the Web, there is a pervasive use of XML to give lightweight semantics to textual collections. Such document-centric XML collections require a query language that can gracefully handle structural constraints as well as constraints on the free text of the documents. Our main contributions are three-fold. First, we outline two fragments of XPath tailored to users that have varying degrees of understanding of the XML structure used, and give both syntactic and semantic characterizations of these ...

Keywords: XML retrieval, XPath, full-text XML querying

4 Structured documents: Searching XML documents via XML fragments



David Carmel, Yoelle S. Maarek, Matan Mandelbrod, Yosi Mass, Aya Soffer
 July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Publisher: ACM Press

Full text available: pdf(402.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most of the work on XML query and search has stemmed from the publishing and database communities, mostly for the needs of business applications. Recently, the Information Retrieval community began investigating the XML search issue to answer information discovery needs. Following this trend, we present here an approach where information needs can be expressed in an approximate manner as pieces of XML documents or "XML fragments" of the same nature as the documents that are being searched. We pr ...

Keywords: XML fragments, XML search & retrieval, vector space model

5 Efficiently publishing relational data as XML documents



Jayavel Shanmugasundaram, Eugene Shekita, Rimon Barr, Michael Carey, Bruce Lindsay, Hamid Pirahesh, Berthold Reinwald

September 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 2-3

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(216.67 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

XML is rapidly emerging as a standard for exchanging business data on the World Wide Web. For the foreseeable future, however, most business data will continue to be stored in relational database systems. Consequently, if XML is to fulfill its potential, some mechanism is needed to publish relational data as XML documents. Towards that goal, one of the major challenges is finding a way to efficiently structure and tag data from one or more tables as a hierarchical XML document. Different alterna ...

Keywords: Publishing, Relational databases, XML

6 Research sessions: new styles of XML: Data stream management for historical XML

**data**

Sujoe Bose, Leonidas Fegaras